

AMENDMENTS TO THE CLAIMS:

Please cancel Claims 3 and 5 without prejudice to or disclaimer of the subject matter recited therein.

Please amend Claims 1, 2, and 4 as follows:

1. (Currently Amended) An optical element device comprising:
~~an optical~~ a light emitting element; and
a substrate mounting the light emitting element thereon and having an optical path
transforming structure,

wherein each of the light emitting element and the substrate comprises a
semiconductor body having a surface, the surface of the light emitting element and the surface of
the substrate being attached to each other, and

wherein the optical path transforming structure is capable of [[for]] changing a light
proceeding direction in order to couple light ~~with the optical element or light from said optical~~
the light emitting element with ~~some other~~ a light receiving element, ~~said optical path~~
transforming structure being formed by processing a substrate where said optical element is
formed.
2. (Currently Amended) The device according to claim 1, wherein ~~said~~ the substrate
is made of a ~~material~~ semiconductor body that does not absorb light being propagated from ~~said~~
the optical light emitting element ~~or to said optical element~~.
3. (Cancelled)

4. (Currently Amended) The device according to claim [[3]] 1, wherein ~~said growth~~ the substrate is formed ~~by using~~ of a compound semiconductor.

5. (Cancelled)

6. (Withdrawn) An optical waveguide device comprising an optical element device including an optical element and an optical path transforming structure for changing a light proceeding direction in order to couple light with the optical element or light from said optical element with some other element, and an optical waveguide layer optically coupled with said optical element and propagating light from said optical element or to said optical element;

said optical path transforming structure being formed by processing a substrate where said optical element is formed.

7. (Withdrawn) The device according to claim 6, wherein said optical waveguide layer is formed by using a sheet-shaped object.

8. (Withdrawn) The device according to claim 6, wherein said optical path transforming structure has a spherical, wedge-shaped, conical or pyramidal profile.

9. (Withdrawn) The device according to claim 8, wherein said optical path transforming structure is formed near the optical element that is a light emitting element so as to couple light emitted from said light emitting element and said light emitting element is so configured as to be able to change its light irradiation angle, while said optical path transforming

structure is configured to transform the optical path so as to propagate light emitted from the light emitting element coupled therewith into the inside of said optical waveguide layer as a beam of light or light diffusing with an angle corresponding to the light irradiation angle.

10. (Withdrawn) The device according to claim 6, wherein said optical path transforming structure is buried into said optical waveguide layer.

11. (Withdrawn) The device according to claim 6, wherein said optical waveguide layer is formed by using the substrate where said optical element is formed.

12. (Withdrawn) A method of manufacturing an optical element device having an optical element and an optical path transforming structure for changing a light proceeding direction in order to couple light with the optical element or light from said optical element with some other element, said method comprising:

a step of preparing a substrate for forming said optical element; and

a step of forming said optical path transforming structure by processing said substrate.

13. (Withdrawn) The method according to claim 12, wherein said step of forming said optical path transforming structure includes a step of forming a recess in said substrate and forming a metal film in the recess.

14. (Withdrawn) The method according to claim 13, wherein said step of forming a recess includes a step of irradiating an ion beam on the surface of said substrate in a direction inclined relative to said surface.

15. (Withdrawn) The method according to claim 13, wherein said step of forming a recess includes a step of dry etching, using a reactive ion beam.

16. (Withdrawn) An optoelectronic circuit board comprising an electric circuit board formed so as to establish electric connection with an optical waveguide device having an optical element device including an optical element and an optical path transforming structure for changing a light proceeding direction in order to couple light with the optical element or light from said optical element with some other element, and

an optical waveguide layer optically coupled with said optical element and propagating light from said optical element or to said optical element;

said optical path transforming structure being formed by processing a substrate where said optical element is formed.